Claims

- 1. In a harvesting machine having a crop conveying element for delivering crop to further crop processing components of the harvesting machine, a power source, a driveline coupled between said power source and said crop conveying element and containing an overload clutch, a crop jam detection arrangement for the detection of a crop jam in the harvesting machine, comprising: said overload clutch including torque transfer elements which generate acoustic and/or mechanical vibrations when said clutch experiences a torque in excess of a pre-determined limit value; a sensor located for sensing said vibrations and generating an input signal representative of said vibrations; and a control arrangement coupled to said sensor for receiving said input signal and operable for processing said input signal and for sending a control signal when said input signal rises above a threshold representative of a crop jam condition.
- 2. The harvesting machine, as defined in claim 1, wherein said sensor is a knock sensor.
- 3. The harvesting machine, as defined in claim 2, wherein said harvesting machine is a forage harvester and includes a shear bar and a cutter knife drum rotating so as to cooperate with said shear bar to cut crop, delivered across the shear bar, into small pieces; and said knock sensor being mounted adjacent said shear bar and operable for sensing engagement between knives carried by said cutter knife drum and said shear bar.
- 4. The harvesting machine, as defined in claim 1, wherein said harvesting machine is a forage harvester; said forage harvester including a crop take-up arrangement mounted to a forward end of said forage harvester; said crop conveyor being a component of said crop take-up arrangement; and said sensor being located on said forage harvester in a location remote from said crop conveyor.
- 5. The harvesting machine, as defined in claim 1, wherein said overload cutch is a cam-controlled clutch.